

Ferris M Pfeiffer

List of Publications by Year in descending order

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50
papers

1,167
citations

394421

19
h-index

395702

33
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51
all docs

51
docs citations

51
times ranked

1255
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomechanical Properties of Bioabsorbable Fixation for Osteochondral Shell Allografts. Journal of Knee Surgery, 2020, 33, 365-371.	1.6	8
2	Pressure reducing skin pie-crusting in extremity trauma: An in-vitro biomechanical study and human case series. Injury, 2020, 51, 1266-1270.	1.7	7
3	Biomechanical evaluation of location and mode of failure in three screw fixations for a comminuted transforaminal sacral fracture model. Journal of Orthopaedic Translation, 2019, 16, 102-111.	3.9	4
4	The minipig as a potential model for pedicle screw fixation: morphometry and mechanics. Journal of Orthopaedic Surgery and Research, 2019, 14, 246.	2.3	8
5	A Biomechanical Study of the Role of the Anterolateral Ligament and the Deep Iliotibial Band for Control of a Simulated Pivot Shift With Comparison of Minimally Invasive Extra-articular Anterolateral Tendon Graft Reconstruction Versus Modified Lemaire Reconstruction After Anterior Cruciate Ligament Reconstruction. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2019, 35, 1473-1483.	2.7	41
6	Biomechanical Evaluation of Suture Anchor versus Transosseous Tunnel Patellar Tendon Repair Techniques. Journal of Knee Surgery, 2019, 32, 825-832.	1.6	17
7	Onlay Reconstruction of the Posterior Cruciate Ligament: Biomechanical Comparison of Unicortical and Bicortical Tibial Fixation. Journal of Knee Surgery, 2019, 32, 972-978.	1.6	4
8	Biomechanical Analysis of Capsular Repair Versus Arthrex TFCC Ulnar Tunnel Repair for Triangular Fibrocartilage Complex Tears. Hand, 2019, 14, 547-553.	1.2	15
9	Rotator cuff healing using demineralized cancellous bone matrix sponge interposition compared to standard repair in a preclinical canine model. Journal of Orthopaedic Research, 2018, 36, 906-912.	2.3	13
10	Validation of the Missouri Osteochondral Allograft Preservation System for the Maintenance of Osteochondral Allograft Quality During Prolonged Storage. American Journal of Sports Medicine, 2018, 46, 58-65.	4.2	50
11	Investigating the relationship between proteomic, compositional, and histologic biomarkers and cartilage biomechanics using artificial neural networks. Journal of Biomechanics, 2018, 80, 136-143.	2.1	7
12	Subchondroplasty for the treatment of post-traumatic bone marrow lesions of the medial femoral condyle in a pre-clinical canine model. Journal of Orthopaedic Research, 2018, 36, 2709-2717.	2.3	16
13	Skeletal Response to Soluble Activin Receptor Type IIB in Mouse Models of Osteogenesis Imperfecta. Journal of Bone and Mineral Research, 2018, 33, 1760-1772.	2.8	24
14	Balancing Academic Rigor and Creative Thinking: A Transformational Approach to Teaching Senior Design. Journal of Biomechanical Engineering, 2018, 140, .	1.3	4
15	Soluble Activin Type IIB Receptor Decoy changes Gene Expression Profiles of Bone Cells in the OIM and not the G610C Mouse Model of Osteogenesis Imperfecta. FASEB Journal, 2018, 32, 660.5.	0.5	0
16	In vivo bone tunnel evaluation of nanoparticle-grafts using an ACL reconstruction rabbit model. Journal of Biomedical Materials Research - Part A, 2017, 105, 1071-1082.	4.0	6
17	Analysis of the s2 alar-iliac screw as compared with the traditional iliac screw: does it increase stability with sacroiliac fixation of the spine?. Spine Journal, 2017, 17, 875-879.	1.3	51
18	A Canine Arthroscopic Anterior Cruciate Ligament Reconstruction Model for Study of Synthetic Augmentation of Tendon Allografts. Journal of Knee Surgery, 2017, 30, 704-711.	1.6	49

#	ARTICLE	IF	CITATIONS
19	Biologic Joint Repair Strategies: The Mizzou BioJoint Story. <i>Toxicologic Pathology</i> , 2017, 45, 931-938.	1.8	13
20	Biomechanical Comparison of Five Posterior Cruciate Ligament Reconstruction Techniques. <i>Journal of Knee Surgery</i> , 2017, 30, 523-531.	1.6	28
21	Biomechanical Comparison: Single-Bundle versus Double-Bundle Posterior Cruciate Ligament Reconstruction Techniques. <i>Journal of Knee Surgery</i> , 2017, 30, 347-351.	1.6	28
22	Parametric imaging of collagen structural changes in human osteoarthritic cartilage using optical polarization tractography. <i>Journal of Biomedical Optics</i> , 2017, 22, 1.	2.6	8
23	Importance of Donor Chondrocyte Viability for Osteochondral Allografts. <i>American Journal of Sports Medicine</i> , 2016, 44, 1260-1268.	4.2	88
24	Tunable multifunctional tissue engineering scaffolds composed of three-component polyampholyte polymers. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	2.6	19
25	Decreasing maternal myostatin programs adult offspring bone strength in a mouse model of osteogenesis imperfecta. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 13522-13527.	7.1	8
26	Development of a Micronized Meniscus Extracellular Matrix Scaffold for Potential Augmentation of Meniscal Repair and Regeneration. <i>Tissue Engineering - Part C: Methods</i> , 2016, 22, 1059-1070.	2.1	21
27	Nondestructive imaging of fiber structure in articular cartilage using optical polarization tractography. <i>Journal of Biomedical Optics</i> , 2016, 21, 116004.	2.6	11
28	Suspensory Versus Interference Screw Fixation for Arthroscopic Anterior Cruciate Ligament Reconstruction in a Translational Large-Animal Model. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2016, 32, 1086-1097.	2.7	60
29	Biomechanical Evaluation of Suture Anchor Versus Transosseous Tunnel Quadriceps Tendon Repair Techniques. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2016, 32, 1117-1124.	2.7	49
30	The Use of Finite Element Analysis to Enhance Research and Clinical Practice in Orthopedics. <i>Journal of Knee Surgery</i> , 2016, 29, 149-158.	1.6	32
31	Optimising femoral-head osteochondral allograft transplantation in a preclinical model. <i>Journal of Orthopaedic Translation</i> , 2016, 5, 48-56.	3.9	9
32	Characterization of the MPS I-H knock-in mouse reveals increased femoral biomechanical integrity with compromised material strength and altered bone geometry. <i>Molecular Genetics and Metabolism Reports</i> , 2015, 5, 3-11.	1.1	7
33	Homozygosity and Heterozygosity for Null Col5a2 Alleles Produce Embryonic Lethality and a Novel Classic Ehlers-Danlos Syndrome-Related Phenotype. <i>American Journal of Pathology</i> , 2015, 185, 2000-2011.	3.8	22
34	Finite element analysis of Stryker Xia pedicle screw in artificial bone samples with and without supplemental cement augmentation. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2015, 18, 1459-1467.	1.6	4
35	A canine hybrid double-bundle model for study of arthroscopic ACL reconstruction. <i>Journal of Orthopaedic Research</i> , 2015, 33, 1171-1179.	2.3	15
36	Is Polymethyl Methacrylate a Viable Option for Salvaging Lateral Mass Screw Failure in the Subaxial Cervical Spine?. <i>Global Spine Journal</i> , 2015, 5, 3-8.	2.3	2

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37	Surgical Strategies to Improve Fixation in the Osteoporotic Spine: the Effects of Tapping, Cement Augmentation, and Screw Trajectory. <i>Global Spine Journal</i> , 2014, 4, 47-53.	2.3	17
38	A Novel System Improves Preservation of Osteochondral Allografts. <i>Clinical Orthopaedics and Related Research</i> , 2014, 472, 3404-3414.	1.5	82
39	The histologic and biomechanical response of two commercially available small glenoid anchors for use in labral repairs. <i>Journal of Shoulder and Elbow Surgery</i> , 2014, 23, 1156-1161.	2.6	57
40	Effects of Low-Temperature Hydrogen Peroxide Gas Plasma Sterilization on In Vitro Cytotoxicity of Poly(ϵ -Caprolactone) (PCL). <i>Journal of Biomaterials Science, Polymer Edition</i> , 2012, 23, 2197-2206.	3.5	5
41	Pedicle Screw Design and Cement Augmentation in Osteoporotic Vertebrae. <i>Spine</i> , 2012, 37, E1628-E1632.	2.0	110
42	Comparison of a Novel Bone-Tendon Allograft With a Human Dermisâ€Derived Patch for Repair of Chronic Large Rotator Cuff Tears Using a Canine Model. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2012, 28, 169-177.	2.7	29
43	Biomechanical Analysis of Pedicle Screws in Osteoporotic Bone With Bioactive Cement Augmentation Using Simulated In Vivo Multicomponent Loading. <i>Spine</i> , 2011, 36, 454-462.	2.0	52
44	Improving Pre-Operative Evaluation and Surgical Planning of Spine Deformity Surgeries Using 3D Printing. , 2009, , .		0
45	Segmental Stiffness Achieved by Three Types of Instrumented Fixation for Unstable Lumbar Spondylolytic Motion Segments. , 2009, , .		0
46	An Assessment of Compression Screws in Cadaver Foot and Ankle Specimens. , 2007, , 137.		0
47	A Novel Technique to Achieve Fusion Using Local Autograft Bone: The Button Fusion. , 2007, , .		0
48	The Influence of Facet Fusion Strength on Instrumented Segment Range of Motion. , 2007, , .		0
49	An Evaluation of the Stryker 90D Pedicle Screw for Use as a Revision Screw. , 2007, , .		0
50	A Comparison of Pullout Strength for Pedicle Screws of Different Designs. <i>Spine</i> , 2006, 31, E867-E870.	2.0	66